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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/759,835	01/16/2004	Chun-Chen Chen	DEE-PT147	8293

3624 7590 12/01/2004

VOLPE AND KOENIG, P.C.  
UNITED PLAZA, SUITE 1600  
30 SOUTH 17TH STREET  
PHILADELPHIA, PA 19103

EXAMINER
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CHUNG TRANS, XUONG MY

ART UNIT	PAPER NUMBER
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2833

DATE MAILED: 12/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/759,835

**Applicant(s)**

CHEN, CHUN-CHEN

**Examiner**

Xuong M. Chung-Trans

**Art Unit**

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 16 January 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

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1. This application has been examined. Claims 1-19 are pending in this application.

***Election/Restrictions***

2. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-16, drawn to a socket, classified in class 439, subclass 736.
- II. Claims 17-19, drawn to a method for forming a socket, classified in class 29.

3. The inventions are distinct, each from the other because of the following reasons:

Inventions set forth in claims 1-16, group I and claims 17-19, group II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the process as claimed can be practiced by another and materially different apparatus such as injection molding.

4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

5. During a telephone conversation with Randolph Huis on November 17, 2004 a provisional election was made without traverse to prosecute the invention of group I,

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claims 1-16. Affirmation of this election must be made by applicant in replying to this Office action. Claims 17-19 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

56. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over the applicant admitted prior art (specification, pages 1-2 and figs. 1-4) and in view of Perugini (USPN 5,655,931), Hearn (USPN 2,296,346) and Harris Jr. (3,210,720).

The admitted prior art discloses the invention substantially as claimed except for a second ring mounted on said central pillar and having a third surface and a fourth surface, wherein said second surface and said third surface are adjacent to each other and have a distance therebetween; and a conducting piece directly and electrically connected with said second ring. Perugini, however, teaches such terminal (22) comprising a first ring (28) and the second ring (30) and the use of a conducting piece (C1) directly and electrically connected with the second ring (30) (figs. 1-2, and col. 3, lines 27-34). Hearn also disclose in figs. 9-10 a terminal (13) comprising a ring (16) and a conducting piece directly rejected against the ring. Therefore, it would have been obvious to one skilled artisan at the time the invention was made to include the teaching of Perugini and Hearn in the admitted prior art in order to increase the

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electrical surface area of contact and promotes long term stability and reliability.

Further, Harris teaches in figs. 4-5 the terminal (48) formed with a plurality of spaced ring (50) for the purpose of anchorage of the insulation molded thereon. Therefore, it would have been obvious to one skilled artisan at the time the invention was made to include the teaching of Harris in the admitted prior art in order to prevent separation of the terminal and the insulator body.

As per claim 4, it is obvious to one skilled artisan at the time the invention was made that the insulator body can be constructed using the injection molding method.

As per claims 5-7, Harris discloses said first and said second Rings (50) have an identical diameter and said distance between said second surface and said third surface is larger than zero, wherein a space between said first ring and said second ring of said terminal is tightly filled by said main body, and said first and said second rings are surrounded by said main body and it is obvious that the distance between the second and third surfaces can be equal to zero as needed.

As per claims 8-12, Perugini disclose the distance between said second surface and said third surface is equal to zero; wherein said second ring has a relatively smaller diameter than that of said first ring, wherein said main body and said terminal are combined together through assembling, wherein said central pillar, said first ring and said second ring of said terminal are integrally formed; wherein said terminal and said conducting piece are made of a conductive material.

As per claim 14, Both Perugini and Hearn disclose said conducting piece is directly rejected against said ring.

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As claim 15, the admitted prior art in view of Perugini and Hearn discloses that said conducting piece can be fixedly rejected against said second ring through riveting said second end of said terminal.

As per claim 16 Hearn disclose said conducting piece is directly and tightly pressed close to said ring.

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hess discloses injection molded in-line connector assembly.

Kelly discloses method for forming an electrical connector.

Lyman discloses method of making an insulating mount with a terminal.

Hearn discloses an electrical terminal connection for a wire and an electrical conductor.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Xuong M. Chung-Trans whose telephone number is (571) 272-2002. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Bradley can be reached on (571) 272-2800 extension 33.. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



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